TOP SECRET



PHOTOGRAPHIC INTERPRETATION REPORT

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

COMMUNICATIONS AND RADAR FACILITIES ASSOCIATED WITH SEMIPALATINSK AIR DEFENSE ZONE HEADQUARTERS, USSR

25X1

TOP SECRET

25X1

AUGUST 1972

COPY NO. 121

6 PAGES

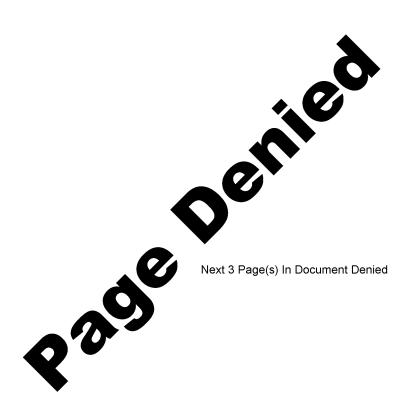
PIR-035/72



See below See	ALLATION OR ACTIVITY NAME mmunications and	Radar Facili	ties Associated wit	h			COUNTRY	
See below See below See b	emipalatinsk Air Defense Zone Headquarters					COMIDEY NO	UR	
Name Coordinates Semipalatinsk HF Communications Station East Observed Beautificant structures. INTRODUCTION Communications facilities that appear to be associated with Semipalatinsk Air Defense one Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk Air Defense one Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk Airfield Radio of Semipalatinsk Airfield Radio South Semipalatinsk Air Defense Some Headquarters and sessionated with Semipalatinsk Air Defense Semipalatinsk Airfield Are to discussed. The report includes basic descriptions, annotated photographs, and mensuration of milicant structures. INTRODUCTION 2. The communications facilities that appear to be associated with Semipalatinsk Air Defense one Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk at mipalatinsk Airfield (Figure 1). 3. Semipalatinsk HF Communications Facility was first reported from KEYHOLE photography of ord 11968. Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio Communications Station East are newly reported. Photography used for the analysis of these facilities is	A Se		ATES ,				See below	
Name Coordinates Semipalatinsk HF Communications Facilities at Semipalatinsk Airfield Radio Communications Station East Oscil 45N Communications Station East Semipalatinsk Airfield Radio 50-21-45N Communications Station East Semipalatinsk Airfield Radio 50-21-55N Communications Station East Semipalatinsk Airfield Radio 50-21-55N Communications Station East Semipalatinsk Air Defense Zone Headquarters The air warning radar facilities and electronics facilities associated with the airfield are so discussed. The report includes basic descriptions, annotated photographs, and mensuration of inficant structures. INTRODUCTION 2. The communications facilities that appear to be associated with Semipalatinsk Air Defense me Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk Airfield (Figure 1). 3. Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio ommunications Station East are newly reported. Photography used for the analysis of these facilities is		00, Sheet 023	9-11, scale 1:200,0	000	1			
Name Coordinates Semipalatinsk HF Communications Facility Semipalatinsk Airfield Radio Communications Station Semipalatinsk Airfield Radio South August 14-25E ABSTRACT 1. This report describes three communications facilities at Semipalatinsk Airfield that appear to be associated with Semipalatinsk Air Defense Zone Headquarters. The air warning radar facilities and electronics facilities associated with the airfield are to discussed. The report includes basic descriptions, annotated photographs, and mensuration of mificant structures. INTRODUCTION 2. The communications facilities that appear to be associated with Semipalatinsk Air Defense one Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk at mipalatinsk Airfield (Figure 1). 3. Semipalatinsk HF Communications Facility was first reported from KEYHOLE photography of poril 1968. Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio communications Station East are newly reported. Photography used for the analysis of these facilities is					TE (If required)			
Name Coordinates Semipalatinsk HF Communications Facility Semipalatinsk Airfield Radio Communications Station East O80-14-25E ABSTRACT 1. This report describes three communications facilities at Semipalatinsk Airfield that appear to be associated with Semipalatinsk Air Defense Zone Headquarters . The air warning radar facilities and electronics facilities associated with the airfield are so discussed. The report includes basic descriptions, annotated photographs, and mensuration of mificant structures. INTRODUCTION 2. The communications facilities that appear to be associated with Semipalatinsk Air Defense one Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk at mipalatinsk Airfield (Figure 1). 3. Semipalatinsk HF Communications Facility was first reported from KEYHOLE photography of pril 1968. Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio Semipalatinsk Airfield Rad				NA				
Name Semipalatinsk HF Communications Facility 50-21-35N 080-12-10E								
Semipalatinsk HF Communications Sacility 080-12-10E Semipalatinsk Airfield Radio 50-21-45N Communications Station 080-13-50E Semipalatinsk Airfield Radio 50-21-55N Communications Station East 080-14-25E ABSTRACT 1. This report describes three communications facilities at Semipalatinsk Airfield that appear to be associated with Semipalatinsk Air Defense Zone Headquarters. The air warning radar facilities and electronics facilities associated with the airfield are to discussed. The report includes basic descriptions, annotated photographs, and mensuration of mificant structures. INTRODUCTION 2. The communications facilities that appear to be associated with Semipalatinsk Air Defense one Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk at mipalatinsk Airfield (Figure 1). 3. Semipalatinsk HF Communications Facility was first reported from KEYHOLE photography of oril 1968. Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio communications Station East are newly reported. Photography used for the analysis of these facilities is				23130/				
Semipalatinsk Airfield Radio 50-21-45N Communications Station 080-13-50E Semipalatinsk Airfield Radio 50-21-55N Communications Station East 080-14-25E ABSTRACT 1. This report describes three communications facilities at Semipalatinsk Airfield that appear to be associated with Semipalatinsk Air Defense Zone Headquarters. The air warning radar facilities and electronics facilities associated with the airfield are to discussed. The report includes basic descriptions, annotated photographs, and mensuration of mificant structures. INTRODUCTION 2. The communications facilities that appear to be associated with Semipalatinsk Air Defense one Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk at mipalatinsk Airfield (Figure 1). 3. Semipalatinsk HF Communications Facility was first reported from KEYHOLE photography of pril 1968. Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio communications Station East are newly reported. Photography used for the analysis of these facilities is	<u>Name</u>		Coordinate	<u>es</u>				
Communications Station 080-13-50E Semipalatinsk Airfield Radio 50-21-55N Communications Station East 080-14-25E ABSTRACT 1. This report describes three communications facilities at Semipalatinsk Airfield that appear to be associated with Semipalatinsk Air Defense Zone Headquarters. The air warning radar facilities and electronics facilities associated with the airfield are so discussed. The report includes basic descriptions, annotated photographs, and mensuration of mificant structures. INTRODUCTION 2. The communications facilities that appear to be associated with Semipalatinsk Air Defense one Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk at mipalatinsk Airfield (Figure 1). 3. Semipalatinsk HF Communications Facility was first reported from KEYHOLE photography of pril 1968. Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio communications Station East are newly reported. Photography used for the analysis of these facilities is								
ABSTRACT 1. This report describes three communications facilities at Semipalatinsk Airfield that appear to be associated with Semipalatinsk Air Defense Zone Headquarters. The air warning radar facilities and electronics facilities associated with the airfield are discussed. The report includes basic descriptions, annotated photographs, and mensuration of mificant structures. INTRODUCTION 2. The communications facilities that appear to be associated with Semipalatinsk Air Defense one Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk at mipalatinsk Airfield (Figure 1). 3. Semipalatinsk HF Communications Facility was first reported from KEYHOLE photography of poril 1968. Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio communications Station East are newly reported. Photography used for the analysis of these facilities is	Semipalatinsk Airfield Radio Communications Station							
1. This report describes three communications facilities at Semipalatinsk Airfield that appear to be associated with Semipalatinsk Air Defense Zone Headquarters. The air warning radar facilities and electronics facilities associated with the airfield are to discussed. The report includes basic descriptions, annotated photographs, and mensuration of mificant structures. INTRODUCTION 2. The communications facilities that appear to be associated with Semipalatinsk Air Defense one Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk at mipalatinsk Airfield (Figure 1). 3. Semipalatinsk HF Communications Facility was first reported from KEYHOLE photography of pril 1968. Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio communications Station East are newly reported. Photography used for the analysis of these facilities is								
that appear to be associated with Semipalatinsk Air Defense Zone Headquarters. The air warning radar facilities and electronics facilities associated with the airfield are to discussed. The report includes basic descriptions, annotated photographs, and mensuration of spificant structures. INTRODUCTION 2. The communications facilities that appear to be associated with Semipalatinsk Air Defense one Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk at mipalatinsk Airfield (Figure 1). 3. Semipalatinsk HF Communications Facility was first reported from KEYHOLE photography of pril 1968. Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio communications Station East are newly reported. Photography used for the analysis of these facilities is			ABST	TRACT				
one Headquarters are approximately 2.7 nautical miles (nm) south of the city of Semipalatinsk at mipalatinsk Airfield (Figure 1). 3. Semipalatinsk HF Communications Facility was first reported from KEYHOLE photography of ordil 1968. Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio Communications Station East are newly reported. Photography used for the analysis of these facilities is	that a	appear to b air warning	e associated with radar facilities and	ications f Semipalat l electronic	insk Air Defei cs facilities ass	nse Zone Hea ociated with t	dquarters he airfield are	
pril 1968. Semipalatinsk Airfield Radio Communications Station and Semipalatinsk Airfield Radio ommunications Station East are newly reported. Photography used for the analysis of these facilities is	that a . The a lso discussed. The	appear to b air warning e report incl	e associated with radar facilities and udes basic descrip	ications f Semipalat l electronic ptions, and	insk Air Defer cs facilities asso notated photo	nse Zone Hea ociated with t	dquarters he airfield are	
BASIC DESCRIPTION	that a . The a lso discussed. The gnificant structure. 2. The commo	appear to b air warning e report incl es. unications f are approxi	e associated with radar facilities and udes basic descrip INTROI acilities that appear mately 2.7 nautice	ications for Semipalat lelectronic ptions, and DUCTION ar to be a	insk Air Defer cs facilities asso notated photor	nse Zone Hea ociated with t graphs, and n Semipalatins	dquarters he airfield are nensuration of	
BASIC DESCRIPTION	that a . The a . The a . The gnificant structure. 2. The common cone Headquarters demipalatinsk Airfie . Semipalatin April 1968. Semipalatin . The companies of the common structure .	appear to b air warning e report incl es. unications f are approxi eld (Figure 1 ask HF Comr alatinsk Airf	e associated with radar facilities and ludes basic descrip INTROI acilities that appearately 2.7 nautical). nunications Facilitield Radio Committed and services and services are serviced with the services and services are services are services and services are services and services are services are services are services are services are services and services are ser	ications for Semipalat lelectronic ptions, and DUCTION are to be a lead miles (roughly was first unications	insk Air Defer cs facilities asso- notated photo- ssociated with nm) south of reported from Station and S	se Zone Hea ociated with t graphs, and n Semipalatins the city of Se KEYHOLE p emipalatinsk	dquarters he airfield are nensuration of k Air Defense mipalatinsk at hotography of Airfield Radio	
BASIC DESCRIPTION	that a . The a . The a . The gnificant structure. 2. The common cone Headquarters demipalatinsk Airfie . Semipalatin April 1968. Semipalatin . The companies of the common structure .	appear to b air warning e report incl es. unications f are approxi eld (Figure 1 ask HF Comr alatinsk Airf	e associated with radar facilities and ludes basic descrip INTROI acilities that appearately 2.7 nautical). nunications Facilitield Radio Committed and services and services are serviced with the services and services are services are services and services are services and services are services are services are services are services are services and services are ser	ications for Semipalat lelectronic ptions, and DUCTION are to be a lead miles (roughly was first unications	insk Air Defer cs facilities asso- notated photo- ssociated with nm) south of reported from Station and S	se Zone Hea ociated with t graphs, and n Semipalatins the city of Se KEYHOLE p emipalatinsk	dquarters he airfield are nensuration of k Air Defense mipalatinsk at hotography of Airfield Radio	
	that a . The a . The a . The gnificant structure. 2. The common cone Headquarters demipalatinsk Airfie . Semipalatin April 1968. Semipalatin . The companies of the common structure .	appear to b air warning e report incl es. unications f are approxi eld (Figure 1 ask HF Comr alatinsk Airf	e associated with radar facilities and ludes basic descrip INTROI acilities that appearately 2.7 nautical). nunications Facilitield Radio Committed and services and services are serviced with the services and services are services are services and services are services and services are services are services are services are services are services and services are ser	ications for Semipalat lelectronic ptions, and DUCTION are to be a lead miles (roughly was first unications	insk Air Defer cs facilities asso- notated photo- ssociated with nm) south of reported from Station and S	se Zone Hea ociated with t graphs, and n Semipalatins the city of Se KEYHOLE p emipalatinsk	dquarters he airfield are nensuration of k Air Defense mipalatinsk at hotography of Airfield Radio	
mipalatinsk HF Communications Facility	that a . The a . The a . The gnificant structure. 2. The common cone Headquarters demipalatinsk Airfie . Semipalatin April 1968. Semipalatin . Semipalatin	appear to b air warning e report incl es. unications f are approxi eld (Figure 1 ask HF Comr alatinsk Airf	e associated with radar facilities and udes basic descrip INTROI acilities that appearately 2.7 nautics). nunications Facilitield Radio Communication commu	ications for Semipalat lelectronic ptions, and DUCTION are to be a lad miles (rough was first unications Photograp)	insk Air Defercs facilities assumotated photograms ssociated with fam) south of reported from Station and Shy used for the	se Zone Hea ociated with t graphs, and n Semipalatins the city of Se KEYHOLE p emipalatinsk	dquarters he airfield are nensuration of k Air Defense mipalatinsk at hotography of Airfield Radio	
5. This station, approximately 1.3 nm northwest of the center of the airfield runway, consists of the horizontal dipole antennas arranged in a semicircle, one FORK REST antenna, a control building, d a support building (Figure 2). It is secured by a single fence. A service road extends from the field.	that a look of the	appear to b air warning e report incl ss. unications f are approxi eld (Figure 1 ask HF Comr alatinsk Airf ation East ar	e associated with radar facilities and udes basic descrip INTROI acilities that appearately 2.7 nautics). nunications Facilitield Radio Communication Radio R	ications for Semipalat lelectronic ptions, and DUCTION are to be a lad miles (rough was first unications Photograp)	insk Air Defercs facilities assumotated photograms ssociated with fam) south of reported from Station and Shy used for the	se Zone Hea ociated with t graphs, and n Semipalatins the city of Se KEYHOLE p emipalatinsk	dquarters he airfield are nensuration of k Air Defense mipalatinsk at hotography of Airfield Radio	
	that a look of the communications of the com	appear to b air warning e report incl es. unications f are approxi eld (Figure 1 ask HF Comr alatinsk Airf ation East ar	e associated with radar facilities and udes basic descriptions. INTROI acilities that appearately 2.7 nautically. nunications Facility ield Radio Communication Facility BASIC DESTACTIONS Facility tely 1.3 nm northwarranged in a semi-	ications of Semipalat lelectronic ptions, and DUCTION are to be a lad miles (not be unications). Photograph SECRIPTIC west of the icircle, one	insk Air Defercs facilities assumptions associated with the num) south of reported from Station and Shy used for the FORK REST	se Zone Hea cociated with the graphs, and me Semipalatins the city of Se KEYHOLE pemipalatinsk analysis of the cairfield runwantenna, a co	dquarters he airfield are nensuration of k Air Defense mipalatinsk at hotography of Airfield Radio ese facilities is	

- 1 -

25X1



TOP SECRET RUFF	25X1				
mast, a control building, and a support building (Figure 3). The R-400 dishoriented approximately east. The station is adjacent to an airfield service road and does not appear be fenced. Possible cable scars appear to link this facility with Semipalatinsk HF Communication Facility and with a former air warning radar site.	to				
Semipalatinsk Airfield Communications Station East					
7. This fence-secured station, approximately 0.8 nm north-northeast of the center of the runway, consists of four horizontal dipole antennas, one cophasal horizontal dipole antenna, one quadrant antenna, and a control building (Figure 4).					
Air Warning Radar Facilities Associated With Semipalatinsk Airfield					
8. Semipalatinsk Airfield Air Warning Radar TALL KING at 50-19-0 080-11-00E is approximately 3 nm southwest of the center of the runway. The site is fenced a consists of one TALL KING radar, a TALL KING control building, a support building, and a proba SQUAT EYE radar.	ınd				
9. Semipalatinsk Air Warning Radar Facility Southeast at 50-21-1 080-26-40E is approximately 7.8 nm east of the center of the runway. It consists of the follow radars: two BACK NET, two SIDE NET, one BAR LOCK, and one probable ROCK CAKE or STO	ing				
CAKE. The only coverage of this facility and weather and so limitations of this imagery precluded further interpretation of the equipment. This equipment apparently moved from a former AW radar site adjacent to Semipalatinsk Air Defense Zo Headquarters. The former site is abandoned and all equipment has been removed.	tale 25X1 was				
Miscellaneous Airfield Electronics					
10. A radio communications station probably associated with airfield operations is adjacent to air terminal at 50-21-40N 080-14-25E. It consists of two horizontal dipoles, one orien approximately 5 degrees with a probable frequency range of 5.0-12.5 MHz and the other orien approximately 115 degrees with a range of 3.75-9.38 MHz. An adjacent operations building appears serve as the control building.	ted ted				
11. An airfield-related radar facility is approximately 0.3 nm northwest of the center of runway at 50-21-21N 080-13-45E. It is fence secured and consists of two BAR LOCK radars mounds, a third BAR LOCK radar adjacent to the site (possibly a spare), eight vanlike sheds, an probable control building between the mounds.	on ·				
REFERENCES					
	25X1				
MAPS OR CHARTS					
ACIC Chart, Series 200, Sheet 0239-11, scale 1:200,000	:				
RELATED DOCUMENTS	,				
USSR. Committee of Standards, Measurements, and Instruments, The USSR Council of Ministers, GOST 8025-67. Transmitting Shortwave Wideband Balanced Antennas (Counterfeed), Moscow 1967 (UNCLASSIFIED)					
RCA Service Company, Contract F 33657-69-C-0010, Soviet Antennas, A Contribution to the DIA Communication Equipment Handbook, 31 Dec 68 (SECRET	ons 25 X 1				
REQUIREMENT					
NPIC/IEG/WGD/SSB Project 251587	25 X 1				
- 6 -	25 X 1				

TOP SECRET RUFF
Sanitized Copy Approved for Release 2011/08/24 : CIA-RDP78T05162A000200010078-4

Sanitized Copy Approved for Release 2011/08/24 : CIA-RDP78T05162A000200010078-4

TOP SECRET